

Refrigeration for Health, Science, and Industry



Serious About Standards



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SERIOUS ABOUT STANDARDS.

In laboratories worldwide, household refrigerators are pressed into duties they were not designed to fulfill. When these units operate inconsistently or fail, consequences can range from inconvenient to costly to dangerous.

Marvel Scientific believes it's time to get serious about standards. Our products are engineered and built to meet or exceed the stringent standards required by health, science and industry. By choosing Marvel Scientific refrigerators and freezers, you are choosing performance and safety. Each General Purpose, Flammable Material Storage, and Hazardous Location (Explosion Proof) model has been designed specifically for the lab with a Commercial UL Listing for your peace of mind.

Let Marvel Scientific help you professionally protect your research, your specimens, and your lab.

PRODUCTS

Refrigerators: Undercounter • Upright • ADA Compliant
• Space Savers • Flammable Material Storage • Hazardous Location • Drawer Refrigerators

Freezers: Countertop • Undercounter • Upright • Flammable Material Storage • Hazardous Location

Combination Refrigerator/Freezers: Undercounter • Modular • Dual Control • Flammable Material Storage • Hazardous Location

Ice Machines: Countertop • Undercounter
• ADA Compliant • Clear Cube Ice • Crescent Cube Ice



MARVEL SCIENTIFIC:

DESIGNED FOR DEMANDING CONDITIONS.

Commercial UL Listing

All Marvel Scientific refrigerators, freezers and ice machines are Commercial UL Listed — a more stringent standard than Household UL — and meet appropriate agency standards for your safety. Marvel Scientific refrigerators do more than protect your valuable contents and research; they protect you.



Commercial Warranty and Service

Every model is backed by the Marvel Scientific Commercial Warranty. Unlike household models with warranties that are void for any use other than residential, Marvel Scientific models are built for and warranted for laboratory, commercial, industrial, hospital and institutional use. A national service network and readily available parts ensure worry-free service. Warranty includes one year parts and labor, with an additional four year parts on the sealed refrigeration system.

Durable Construction

Textured, commercial grade door and cabinet exteriors are finished in a durable powder coat that resists fingerprinting and looks perpetually new. Two layers of insulation surround power conductors in the extra long jacketed power cord with hospital-grade plug. Fan motors have a self-lubricating bearing system that lasts virtually a lifetime. Hardened, heat treated door hinges and commercial door bars add to the rugged construction.

Commercial Cooling Power

Marvel Scientific undercounter, general purpose refrigerators and freezers feature the appropriate BTU rated compressor to provide rapid temperature pull-down when the refrigerator is loaded and quick recovery after door openings; yet they operate as quiet as a whisper. Wide finned condenser provides superior cooling technology and reduces common problems due to dust and dirt accumulation during use.

Reliable Temperature Control

Maintenance of critical temperatures is a priority. Larger, more powerful mechanical systems and sensitive controls maintain critical storage temperatures under conditions of frequent door openings, plus warm contents placed in the refrigeration chamber are quickly cooled. Electronic, microprocessor based thermostats are adjustable; and, once you set the temperature, your Marvel Scientific refrigerator will maintain it.

Energy Saving Efficiency

CFC-free, polyurethane foam insulation in the cabinet and door forms a seamless barrier and adds structural rigidity without unnecessary weight. A magnetic door gasket assures an excellent seal for energy conservation.

Marvel Scientific offers three lines of refrigerators to meet your needs:

GENERAL PURPOSE

FLAMMABLE MATERIAL STORAGE

HAZARDOUS LOCATION

GENERAL PURPOSE

- Commercial UL Listed
- Extra long, jacketed commercial power cord with hospital grade plug
- Foam insulated cabinet and door
- Hardened, heat-treated positive close hinges
- Commercial door bars and retaining bar at bottom of cabinet
- Commercial rated shelves
- Sheet steel enclosed mechanical and electrical components on unit back and bottom for superior protection and durability against harsh environmental conditions
- Heavy-duty commercial fan motor

FLAMMABLE MATERIAL STORAGE

- Specially designed compressor with all electrical components enclosed to prevent accidental ignition of refrigerator contents
- Listed in Underwriters Laboratories File SA7488(N)
- Meets National Fire Protection Association Standard 99
- Complies with OSHA Article No. CFR1910.308
- Enclosed overload, relay and thermostat
- Commercial power cord with 3-prong plug
- Features a static condenser free of electric fan (needs additional clearance when recessed)

HAZARDOUS LOCATION

- Listed by Underwriters Laboratories for Class 1, Group C and D applications
- Mechanical assembly designed to prevent electrical sparks from igniting volatile or explosive substances in surrounding environment
- Thermostat enclosed by precision-machined housing
- Wiring totally enclosed in sealed pipe
- Compressor overload and relay switch totally enclosed
- Wiring complies with the National Electrical Code, Article 501 -4 for Class 1, Division 1 and 2
- Specially designed compressor with all electrical components enclosed to prevent sparks from triggering an explosion of vapors in the environment
- For added safety, hazardous location units must be hardwire connected to an appropriately rated conduit box
- Features a static condenser free of electric fan (needs additional clearance when recessed)



MicroSentry™ Scientific Refrigeration Controller



Marvel Scientific refrigerators have always been the most dependable and reliable, maintaining stable temperatures to protect valuable research and costly materials. Now, that reliability is measurable and recordable.

With the **MicroSentry™ Scientific** refrigeration controller, you have the ability to control, confirm and capture temperature performance, giving you the ultimate confidence in your refrigeration.

- Interior mounted electronic controls with temperature display for convenient monitoring
- User-programmable temperature set point, high/low alarm values and alarm delay period
- Integral remote alarm interface
- High/low temperature history record, periodic maintenance notifications and built-in diagnostics

The **MicroSentry™ Scientific** refrigeration controller is featured on the 6CARFM and 6CARFM-GLD (shown here) the 3CARM and 3CARM-GLD shown on page 6, the 6CADM shown on page 8 and the 8CARM shown on page 9.

1 6CARFM General Purpose

- **MicroSentry™ Scientific** refrigeration controller
- Advanced forced air cooling system for improved temperature accuracy and uniformity throughout
- Solid door with no interior door shelves
- 3 Cantilever mounted full depth shelves, adjustable in 1.5 inch increments
- Interior light

2 6CARFM-GLD Glass Door General Purpose

- **MicroSentry™ Scientific** refrigeration controller
- Advanced forced air cooling system for improved temperature accuracy and uniformity throughout
- Clear tempered glass door
- 3 Cantilever mounted full depth shelves, adjustable in 1.5 inch increments
- Interior light



NEW Forced Air Cooling



NEW Forced Air Cooling

Model Number	Volume cu.ft./liters	Interior Dimensions H x W x D in/cm	Exterior Dimensions H x W x D in/cm	Temperature Range °F/°C	Defrost	Shipping Unit Wt	Weight w/Skid
General Purpose Refrigerators							
1 6CARFM	5.64 cu.ft. 160 liters	26 x 20 1⁄8 x 18 66 x 51.1 x 45.7	33 7⁄8 x 23 7⁄8 x 23 5⁄8 86 x 61 x 60	34° to 45° 1° to 7°	Automatic	122lb 55kg	142lb 64kg
2 6CARFM-GLD Glass Door	5.64 cu.ft. 160 liters	26 x 20 1⁄8 x 18 66 x 51.1 x 45.7	33 7⁄8 x 23 7⁄8 x 23 5⁄8 86 x 61 x 60	34° to 45° 1° to 7°	Automatic	122lb 55kg	142lb 64kg



Space Savers

Fit 15" Openings

Marvel Scientific Space Savers are the perfect solution when space is limited and precise consistent temperature control is required. At 14 7/8" wide, these models fit easily into standard 15" wide casework openings. The 3CARM is 3.0 cu.ft. with a plate evaporator system with fan assist that maintains consistent temperatures from top to bottom and back to front. The 3CARM and 3CARM-GLD also feature the MicroSentry™ Scientific refrigeration controller as described on page 5.

1 3CARM General Purpose

- MicroSentry™ Scientific Controller
- Solid door with no interior door shelves
- 3 full-depth adjustable shelves

2 3CARM-GLD Glass Door General Purpose

- MicroSentry™ Scientific Controller
- Clear tempered glass door
- 3 full-depth adjustable shelves

As with all Marvel Scientific refrigeration products, Space Savers feature a heavy-duty commercial fan motor, double insulated power cord with a hospital grade plug, and fan cooled condenser. Models are Commercial UL and C-UL listed and use non-CFC refrigerant and foam cabinet insulation.



Model Number	Volume cu.ft./liters	Interior Dimensions H x W x D in/cm	Exterior Dimensions H x W x D in/cm	Temperature Range °F/°C	Defrost	Shipping Unit Wt	Weight w/Skid
General Purpose Refrigerators							
1 3CARM	3.0 cu.ft. 85 liters	22 1/8 x 12 x 18 1/4 56 x 30 x 46	34 x 14 7/8 x 23 5/8 86 x 61 x 61	33° to 45° 1° to 7°	auto cycle	100lb 45kg	114lb 52kg
2 3CARM-GLD Glass Door	3.0 cu.ft. 85 liters	22 1/8 x 12 x 18 1/4 56 x 30 x 46	34 x 14 7/8 x 23 5/8 86 x 61 x 61	33° to 45° 1° to 7°	auto cycle	100lb 45kg	114lb 52kg

6CRDE

Two-Drawer Undercounter Refrigerator

Marvel's 6CRDE is the first undercounter drawer refrigerator on the market that is Commercial UL Listed for laboratory use. The undercounter configuration allows for easy use even from a seated position. Two deep, three-fourths extension drawers store nearly all types of containers and provide superior visibility and access - no more reaching to the back of a crowded shelf. The 6CRDE also features interior lighting, automatic defrost, hidden touchpad controls with LED digital display and heavy duty drawer slides for full loads. Box-Style drawer fronts come in white or stainless steel with top-edge mounted, non obtrusive handle.

1 6CRDE Two-Drawer Undercounter Refrigerator

- Box-Style drawer fronts in white or stainless steel with top-edge mounted, non obtrusive handle
- Extra-deep drawers for abundant storage
- Hidden touchpad controls with LED digital display
- Automatic defrost system
- Heavy-duty, $\frac{3}{4}$ extension drawer slides
- Interior light
- Leveling legs
- High/low temperature alarms
- Temperature can be displayed in °F or °C
- Probe port in rear cabinet wall for convenient central temperature monitoring probe installation
- Hospital-grade plug

Sentry™ Controls



		Interior Dimensions H x W x D in/cm	Exterior Dimensions H x W x D in/cm	Temperature Range °F/°C	Defrost	Shipping Weight Unit Wt w/Skid	
Model Number	Volume cu.ft./liters						
General Purpose Refrigerators							
1 6CRDE	6.0 cu.ft. 170 liters	Top 10¼ x 18⅜ x 18⅞ 26 x 46.7 x 48 Bottom Front 11⅞ x 18⅜ x 11¼ 30.2 x 46.7 x 28.6 Bottom Rear 7½ x 18⅜ x 7½ 19 1 x 46 7 x 19 1	33¾ x 23⅞ x 24¼ 86 x 61 x 62	34° to 47° 1° to 8°	auto cycle	170lb 77kg	180lb 82kg

ADA Height Compliant Products

Marvel Scientific's ADA height compliant refrigerator and ice machine are 31 1/2" high to fit under lower ADA height countertops. They may be built into casework with zero clearance or used free standing. They are designed to comply with the Americans with Disabilities Act (ADA). Title III of the ADA requires that all new construction of, or modifications to, public and commercial facilities be accessible to individuals with disabilities. The 6CADM features the **MicroSentry™ Scientific** refrigeration controller as described on page 5.

The clear ice machine delivers crystal clear ice that is free from odors and impurities. The hygienic cubes are perfect for use in patient care and sports medicine applications and for the calibration of instruments.

1 6CADM General Purpose

- **MicroSentry™ Scientific** refrigeration controller
- Flat door liner
- 2 pull-out shelves with safety stops
- 1 stationary shelf with open space for vertical storage of large or tall containers

2 6ADi General Purpose

- Clear ice
- 30lb storage
- Requires gravity drain or optional drain pump(see Marvel drain pump kit on page 12)

The Clear Ice Advantage 6ADi Clear Ice Machine



Clear ice is created by a fractional freezing process that removes impurities in water as it freezes. The result is sparkling clear ice, free of odors and impurities, that does not clump or stick together.

Model Number	Volume cu.ft./liters	Interior Dimensions H x W x D in/cm	Exterior Dimensions H x W x D in/cm	Temperature Range °F/°C	Defrost	Shipping Weight Unit Wt w/Skid	
General Purpose ADA Compliant Refrigerators							
1 6CADM ADA Compliant	5.4 cu.ft. 153 liters	19½ x 20¼ x 19½ 53 x 53 x 49	31 ⅜ x 23 ⅞ x 24 ⅜ 80 x 61 x 62	33° to 45° 1° to 7°	cycle	120lb 55kg	130lb 60kg

Model Number	Ice Type	Ice Prod. per Day/ Storage lbs/kg	Interior Dimensions H x W x D in/cm	Exterior Dimensions H x W x D in/cm	Temperature Range °F/°C	Defrost	Shipping Weight Unit Wt w/Skid	
General Purpose ADA Compliant Ice Machine								
2 6ADi ADA Compliant	clear	up to 30/30 14/14	21 x 12 19 53 x 30 x 48	31 ³ / ₈ x 14 ⁷ / ₈ x 23 ⁵ / ₈ 80 x 38 x 60	30° to 32° -1° to 0°	NA	100lb 45kg	120lb 54kg

Undercounter Refrigerators

Marvel Scientific is the leader in commercial tough refrigerators. Marvel Scientific general purpose undercounter refrigerators feature the **MicroSentry™ Scientific** refrigeration controller to maintain critical temperatures with uncompromising consistency. From narrow 3 cubic foot to large 8 cubic foot models, Marvel has an undercounter refrigerator to meet your needs.



1 3CARM General Purpose

- **MicroSentry™ Scientific** refrigeration controller (see page 5)
- Space saving 15" wide
- 3 full depth adjustable shelves

2 3CARM-GLD Glass Door General Purpose

- **MicroSentry™ Scientific** refrigeration controller (see page 5)
- Clear tempered glass door
- 3 full depth adjustable shelves

3 6CADM General Purpose ADA Compliant

- **MicroSentry™ Scientific** refrigeration controller (see page 5)
- Fits under 34" counter
- 2 pull-out shelves with safety stops
- 1 stationary shelf with open space for vertical storage of large or tall containers

4 6CARFM General Purpose

- **MicroSentry™ Scientific** refrigeration controller (see page 5)
- Solid door with no interior door shelves
- 3 cantilever mounted full depth shelves adjustable in 1.5 inch increments
- Advanced forced air interior cooling system for improved temperature accuracy and uniformity throughout

5 6CARFM-GLD Glass Door General Purpose

- **MicroSentry™ Scientific** refrigeration controller (see page 5)
- Clear tempered glass door
- 3 cantilever mounted full depth shelves adjustable in 1.5 inch increments
- Advanced forced air interior cooling system for improved temperature accuracy and uniformity throughout

6 6FAR Flammable Material

6GEAR Hazardous Location

- 2 adjustable shelves
- 3 door shelves

7 8CARM General Purpose

- **MicroSentry™ Scientific** refrigeration controller (see page 5)
- Generous 8.0 cu.ft. of storage
- 2 extra-wide shelves
- 3 door shelves

Model Number	Volume cu.ft./ liters	Interior Dimensions H x W x D in/cm	Exterior Dimensions H x W x D in/cm	Temperature Range °F/°C	Defrost	Shipping Weight Unit Wt w/Skid	
General Purpose Refrigerators							
1 3CARM	3.0 cu.ft. 85 liters	22 $\frac{1}{8}$ x 12 x 18 $\frac{1}{2}$ 56 x 30 x 46	34 x 14 $\frac{7}{8}$ x 23 $\frac{5}{8}$ 86 x 61 x 61	33° to 45° 1° to 7°	cycle	100lb 45kg	114lb 52kg
2 3CARM-GLD Glass Door	3.0 cu.ft. 85 liters	22 $\frac{1}{8}$ x 12 x 18 $\frac{1}{2}$ 56 x 30 x 46	34 x 14 $\frac{7}{8}$ x 23 $\frac{5}{8}$ 86 x 61 x 61	33° to 45° 1° to 7°	cycle	100lb 45kg	114lb 52kg
3 6CADM ADA Compliant	5.4 cu.ft. 153 liters	19 $\frac{1}{2}$ x 20 $\frac{3}{4}$ x 19 $\frac{1}{2}$ 53 x 53 x 49	31 $\frac{1}{2}$ x 23 $\frac{7}{8}$ x 24 $\frac{1}{4}$ 80 x 61 x 62	33° to 45° 1° to 7°	cycle	120lb 55kg	130lb 60kg
4 6CARFM	5.6 cu.ft. 160 liters	26 $\frac{1}{2}$ x 20 x 18 67 x 53 x 53	33 $\frac{7}{8}$ x 23 $\frac{7}{8}$ x 25 $\frac{5}{8}$ 86 x 61 x 61	33° to 45° 1° to 7°	automatic	122lb 55kg	142lb 64kg
5 6CARFM-GLD Glass Door	5.6 cu.ft. 160 liters	26 $\frac{1}{2}$ x 20 x 18 67 x 53 x 53	33 $\frac{7}{8}$ x 23 $\frac{7}{8}$ x 25 $\frac{5}{8}$ 86 x 61 x 61	33° to 45° 1° to 7°	automatic	120lb 55kg	152lb 64kg
7 8CARM	8.0 cu.ft. 227 liters	26 $\frac{1}{2}$ x 28 x 20 $\frac{3}{4}$ 71 x 71 x 53	34 x 29 $\frac{7}{8}$ x 24 86 x 76 x 61	33° to 45° 1° to 7°	cycle	135lb 62kg	145lb 66kg

Flammable Material

6 6FAR*	6.1 cu.ft. 173 liters	28 x 21 x 20 $\frac{3}{4}$ 71 x 53 x 53	34 x 23 $\frac{7}{8}$ x 26 86 x 61 x 66	33° to 45° 1° to 7°	cycle	120lb 55kg	130lb 60kg
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Hazardous Location

6 6GEAR*	6.1 cu.ft. 173 liters	28 x 21 x 20 $\frac{3}{4}$ 71 x 53 x 53	34 x 23 $\frac{7}{8}$ x 26 86 x 61 x 66	33° to 45° 1° to 7°	cycle	120lb 55kg	130lb 60kg
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*Note: Flammable material storage and hazardous location models feature static condensers and need an additional 1" clearance from top and sides and 1 $\frac{1}{2}$ " from back for proper condenser ventilation when recessed.



Upright Refrigerators and Freezers

Marvel Scientific's upright refrigerators and freezers are powerfully built, offering the same reliability as the undercounter products. These models employ "warm wall" condensers and are suitable for free-standing use only.

1 17CAR General Purpose Refrigerator

- 2 adjustable shelves
- 2 fixed shelves
- 5 door shelves
- Optional surface mounted lock
- Forced air evaporator
- Automatic defrost⁺

2 17CAF General Purpose Freezer

- Large capacity freezer
- Lock
- 3 fixed shelves
- 1 full-access sliding basket
- 5 door shelves
- Tube and wire evaporator
- Manual defrost

Model Number	Volume cu.ft./liters	Interior Dimensions H x W x D in/cm	Exterior Dimensions H x W x D in/cm	Temperature Range °F/°C	Defrost	Shipping Unit Wt	Weight w/Skid
General Purpose							
1 17CAR*	16.7 cu.ft. 473 liters	51 x 27 x 21 ¾ 130 x 69 x 55	64½ x 32 x 26½ 164 x 81 x 67	37° to 46° 2.8° to 7.8°	automatic	214lb 97kg	234lb 106kg
2 17CAF*	17.1 cu.ft. 484 liters	51 x 27 x 21 ¾ 130 x 69 x 55	64½ x 32 x 26½ 164 x 81 x 67	-10° to 10° -23.3° to -12.2°	manual	200lb 91 kg	220lb 100kg

*Notes: Automatic defrost products may not be suitable for critical temperature storage applications such as vaccines.

*Note: Automatic defrost products may not be suitable for critical temperature storage applications such as vaccines.

*Note: This is a free-standing model and requires 3" clearance from top, sides and back for proper condenser ventilation.

Combination

Refrigerator/Freezers

Whether you need a 6 or 8 cu.ft. undercounter refrigerator/freezer, or the flexibility of our Modular Series with dual controls, Marvel Scientific has the perfect model for your application. Only the Marvel Scientific Modular Series offers a -20° C freezer in combination with a 4° C refrigerator and the ability to independently control the temperature in each chamber.

1 6CRF General Purpose

6FRF Flammable Material



6ERF Hazardous Location



- 10.5 sq.ft. of shelf area
- 5.3 cu.ft. of refrigerator space and 0.7 cu.ft. of freezer space
- 2 adjustable shelves
- 3 door shelves

2 6CRF-GLD Glass Door General Purpose

- Clear tempered glass door provides easy viewing of contents
- 5.3 cu. ft. of refrigerator space and 0.7 cu.ft. of freezer space
- 2 adjustable shelves

3 8CRF General Purpose

- Largest undercounter refrigerator/freezer on the market
- 7.2 cu.ft. of refrigerator space and 0.7 cu.ft. of freezer space
- 2 shelves
- 3 door shelves

4 Modular Series General Purpose

- Requires approximately 4 sq.ft. of floor space
- 5.6 cu.ft. of refrigerator space and 4.5 cu.ft. of freezer space
- Independently controlled compartments, with separate thermostats, mechanical systems and power cords
- **MicroSentry™ Scientific** refrigeration controller (see page 5) in the refrigeration compartment
- Knob style temperature control for freezer with digital temperature display
- Temperature displayed in °C



Model Number	Volume cu.ft./liters	Interior Dimensions H x W x D in/cm	Exterior Dimensions H x W x D in/cm	Temp. Range Refrigerator °F/°C	Temp. Range Freezer °F/°C	Defrost	Shipping Weight	
							Unit Wt	w/Skid
General Purpose Refrigerators								
1 6CRF	6.1 cu.ft. 173 liters	28 x 21 x 20½ 71 x 53 x 53	34 x 23⅞ x 24 86 x 61 x 61	33° to 45° 1° to 7°	0° to 15° -18° to -9°	manual	120lb 55kg	130lb 59kg
2 6CRF-GLD Glass Door	6.1 cu.ft. 173 liters	28 x 21 x 20½ 71 x 53 x 53	34 x 23⅞ x 24 86 x 61 x 61	33° to 45° 1° to 7°	0° to 15° -18° to -9°	manual	120lb 55kg	130lb 59kg
3 8CRF	8.0 cu.ft. 227 liters	28½ x 28 x 20½ 72 x 71 x 51	34 x 29⅞ x 24 86 x 76 x 61	33° to 45° 1° to 7°	0° to 15° -18° to -9°	manual	135lb 62kg	149lb 66kg
4 6MOD6CARFM/4CAF	10.1 cu.ft. 286 liters	Please see individual models	68½ x 23⅞ x 24½ 174 x 61 x 62	33° to 45° 1° to 7°	-10° to 0° -23° to -18°	automatic/ manual	270lb 123kg	310lb 142kg

Flammable Material



1 6FRF*	6.1 cu.ft. 173 liters	28 x 21 x 20½ 71 x 53 x 53	34 x 23⅞ x 24 86 x 61 x 61	33° to 45° 1° to 7°	0° to 15° -18° to -9°	manual	120lb 55kg	130lb 59kg
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Hazardous Location



1 6ERF*	6.1 cu.ft. 173 liters	28 x 21 x 20½ 71 x 53 x 53	34 x 23⅞ x 24 86 x 61 x 61	33° to 45° 1° to 7°	0° to 15° -18° to -9°	manual	120lb 55kg	130lb 59kg
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*Note: Flammable material storage and hazardous location models feature static condensers and need an additional 1" clearance from top and sides and 1½" from back for proper condenser ventilation when recessed.

Ice Machines

Marvel Scientific's commercial quality ice machines are ideal for laboratory or industrial applications. Whether on your countertop, undercounter or free-standing, our clear ice machines deliver hard, crystal clear ice that is free from odors and impurities. Hygienic cubes are perfect for use in patient care, sports medicine applications and instrument calibration.



The Clear Ice Advantage 6ADi & 30CM Clear Ice Machine



Clear ice is created by a fractional freezing process that removes impurities and odor. The result is sparkling clear ice that does not clump.

1 15CM General Purpose

- Countertop use
- Crescent cubes
- No drain required

2 25CM General Purpose

- Crescent cubes
- No drain required

3 30CM General Purpose

- Clear ice
- Requires gravity drain or optional pump (see Marvel drain pump kit, left)

4 6ADi General Purpose

- ADA height compliant
- Clear ice
- Requires gravity drain or optional pump (see marvel drain pump kit, left)

Drain Pump Kit 30CM & 6ADi Clear Ice Machines



- Designed for ice machines that require a drain and where a floor drain is not available
- Pumps drain water from ice machine to the nearest drain
- Sealed reservoir prevents leaks and overflows
- Rated for 8 feet of vertical lift and 20 feet of horizontal run
- 115V/60Hz only
- Part #42248890

Model Number	Ice Type	Ice Prod. per Day/ Storage lbs/kg	Interior Dimensions H x W x D in/cm	Exterior Dimensions H x W x D in/cm	Temperature Range °F/°C	Defrost	Shipping Unit Wt	Weight w/Skid
General Purpose Ice Machines								
1 15CM	crescent	up to 12/15 5/7	12 x 11 1/4 x 17 5/8 30 x 29 x 45	24 1/4 x 14 7/8 x 22 1/8 62 x 38 x 56	0° to 20° -18° to -7°	manual	72 33	92 42
2 25CM	crescent	up to 12/15 5/7	12 x 11 1/4 x 17 5/8 30 x 29 x 45	34 x 14 7/8 x 22 1/8 87 x 38 x 56	0° to 20° -18° to -7°	manual	86 39	107 49
3 30CM	clear	up to 30/30 14/14	23 1/4 x 12 x 19 59 x 30 x 48	34 x 14 7/8 x 22 5/8 87 x 38 x 60	30° to 32° -1° to 0°	NA	100 45	120 54
4 6ADi ADA Height Compliant	clear	up to 30/30 14/14	21 x 12 19 53 x 30 x 48	31 1/2 x 14 7/8 x 23 5/8 80 x 38 x 60	30° to 32° -1° to 0°	auto cycle	100 45	120 54



Freezers

Undercounter and Counter-top

Marvel Scientific freezers are designed and manufactured to consistently meet the needs of health, science and industry. Marvel Scientific freezers have the power to cool contents quickly and dependably. Select freezers ranging in size from the 1.5 cu.ft. counter-top freezer to the large 6.1 cu.ft. undercounter model.

1 15CAF General Purpose

- -20° C counter-top freezer
- Flat door liner
- Compact footprint
- Counter-top point-of-use storage or built-in undercounter

2 4CAF General Purpose

4FAF Flammable Material 

4EAF Hazardous Location 

- Flat door liner
- Removable shelf

3 6CAF General Purpose

- 3 door shelves
- 1 adjustable shelf
- 1 fixed shelf



		Interior Dimensions H x W x D in/cm	Exterior Dimensions H x W x D in/cm	Temperature Range °F/°C		Shipping Weight	
Model Number	Volume cu.ft./liters				Defrost	Unit Wt	w/Skid
General Purpose Refrigerators							
1 15CAF	1.5 cu.ft. 42.5 liters	12 x 11 ¼ x 17 ½ 30 x 29 x 45	24 ¼ x 14 ¾ x 22 ½ 62 x 38 x 56	-4° -20°	manual	70 32	87 39
2 4CAF	4.5 cu.ft. 127 liters	24 ¾ x 19 x 18 ¼ 63 x 48 x 46	34 x 23 ¾ x 24 86 x 61 x 61	-10° to 0° -23° to -18°	manual	120 55	130 59
3 6CAF	6.1 cu.ft. 173 liters	27 ½ x 21 x 21 70 x 53 x 53	34 x 23 ¾ x 24 86 x 61 x 61	10° to 20° -12° to -7°	manual	120 55	130 59

Flammable Material

2 4FAF*	4.5 cu.ft. 127 liters	24¾ x 19 x 18¼ 63 x 48 x 46	34 x 23¾ x 24 86 x 61 x 61	0° to 5° -18° to -15°	manual	120 55	130 59
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Hazardous Location

2 4EAF*	4.5 cu.ft. 127 liters	24¾ x 19 x 18¼ 63 x 48 x 46	34 x 23¾ x 24 86 x 61 x 61	0° to 5° -18° to -15°	manual	120 55	130 59
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*Note: Flammable material storage and hazardous location models feature static condensers and need an additional 1" clearance from top and sides and 1½" from back for proper condenser ventilation when recessed.

Options Available

Marvel Scientific offers an array of options and accessories for a very simple reason - rigorous applications like yours demand more than a standard refrigerator. Probe ports, locks, and casters are just a few of the available options.

1 Lock

- Option LKY
- Specify right or left-hand door hinge when ordering

2 Probe Port

- Option PP

3 Casters

- Part no. 42244041

4 Temperature Monitor/Alarm and Relay

- Option TMAR part no. 42247944
- Ships separately

5 Thermometer

- Refrigerator part no. 42243145
- Freezers part no. 42243144
- Ships separately

6 External Alarm

- Part no. 42248107
- Ships separately

7 Stacking Kit

- Part no. 42248965-WHT
- Allows stacking of existing 24 inch wide units to save floor space.
- Easy to follow instructions
- Assembles in 10-15 minutes
- Ships separately



4 Temperature Monitor /Alarm and Relay



- Provides visual and audible alarms for high and low temperature conditions
- Covers -100°C to +100°C temperature range
- 120VAC with battery back-up for critical monitoring alarm in case of power failure
- Easy-to-read LED display
- SPDT relay for connection to remote or central monitoring system

5 Thermometers



- Designed to monitor critical refrigerator and freezer temperatures
- Filled with red spirit for easy readability
- Thermometer stem coated with Teflon® for added safety
- Shatter-proof plastic bottle filled with fluid to stabilize readings
- Includes NIST traceability certificate
- Durable double magnet secures bottle to interior cabinet or door

For Refrigerators:

- Dimensions: 6" x 1" x 1"
- Temp: -5° to 15° C
- Shipping Wt: 1lb

For Freezers:

- Dimensions: 6" x 1" x 1"
- Temp: -30° to 0° C
- Shipping Wt: 1lb

6 External Alarm



- Interfaces with MicroSentry™ Scientific refrigeration controller
- Provides wider area alarm and power failure battery back-up of audible and visual alarm functions
- Can be remotely located from refrigerator.
- 120 VAC with 9 Volt DC battery back-up during power failure events

Cut-Out

Dimensions

		Exterior Cabinet Dimensions in/cm			Finished Rough Opening Dimensions in/cm			Height w/ Leveling Legs Installed in/cm	Electrical V/Hz/Amps
		Model	A Height	B Width	C Depth	D Height	E Width	F Min. Depth	G
General Purpose Undercounter Refrigerators	6CRDE	34 86	23 ⁷ / ₈ 61	24 ¹ / ₄ 62	34 ¹ / ₂ 87.6	24 61	24 61	34 - 35 87 - 89	115/60/3.3
	3CARM	34 87	14 ⁷ / ₈ 38	23 ⁵ / ₈ 60	34 ¹ / ₂ 87.6	15 38.1	24 61	34 - 35 87.3 - 89	115/60/3.3
	3CARM-GLD	34 87	14 ⁷ / ₈ 38	23 ⁵ / ₈ 60	34 ¹ / ₂ 87.6	15 38.1	24 61	34 - 35 87.3 - 89	115/60/3.3
	6CADM	31 ¹ / ₂ 80	23 ⁷ / ₈ 61	24 ³ / ₈ 62	32 81.3	24 61	24 61	31 ¹ / ₂ - 32 ¹ / ₂ 80.6 - 82.6	115/60/3.3
	6CARFM	33 ⁷ / ₈ 86	23 ⁷ / ₈ 61	23 ⁵ / ₈ 60	34 ¹ / ₂ 87.6	24 61	24 61	34 - 35 87 - 89	115/60/3.3
	6CARFM-GLD	33 ⁷ / ₈ 86	23 ⁷ / ₈ 61	23 ⁵ / ₈ 60	34 ¹ / ₂ 87.6	24 61	24 61	34 - 35 87 - 89	115/60/3.3
	8CARM	34 86	29 ⁷ / ₈ 76	24 61	34 ¹ / ₂ 87.6	30 76.2	24 61	34 - 35 87 - 89	115/60/3.3
General Purpose Large Capacity Refrigerators & Freezers	17CAR	64 ¹ / ₂ 164	32 81	26 ¹ / ₂ 67	†	†	†	N/A	115/60/3.3
	17CAF	64 ¹ / ₂ 164	32 81	26 ¹ / ₂ 67	†	†	†	N/A	115/60/3.3
General Purpose Refrigerator/Freezers	6CRF	34 86	23 ⁷ / ₈ 61	24 61	34 ¹ / ₂ 87.6	24 61	24 61	34 - 35 87 - 89	115/60/3.3
	6CRF-GLD	34 86	23 ⁷ / ₈ 61	24 61	34 ¹ / ₂ 87.6	24 61	24 61	34 - 35 87 - 89	115/60/3.3
	8CRF	34 86	29 ⁷ / ₈ 76	24 61	34 ¹ / ₂ 87.6	30 76.2	24 61	34 - 35 87 - 89	115/60/3.3
	6MOD 6CARFM/4CAF	68 ¹ / ₂ 174	24 ¹ / ₈ 61	24 ¹ / ₂ 62	69 175.3	23 ⁷ / ₈ 61.6	24 61	68 ¹ / ₈ - 69 ¹ / ₈ 173.7 - 175.6	115/60/6.6
General Purpose Ice Machines	15CM	24 ¹ / ₄ 62	14 ⁷ / ₈ 38	22 ¹ / ₈ 56	24 ⁵ / ₈ 62.5	15 38.1	24* 61	**	115/60/3.3
	25CM	34 ¹ / ₂ 87	14 ⁷ / ₈ 38	22 ¹ / ₈ 60	34 ¹ / ₂ 87.6	15 38.1	24* 61	**	115/60/3.3
	30CM	34 ¹ / ₂ 87	14 ⁷ / ₈ 38	23 ⁵ / ₈ 60	34 ¹ / ₂ 87.6	15 38.1	24 61	34 - 35 87.3 - 89	115/60/3.3
	6ADi	31 ¹ / ₂ 80	14 ⁷ / ₈ 38	23 ⁵ / ₈ 60	32 81.3	15 38.1	24* 61	31 ¹ / ₂ - 32 ¹ / ₂ 80.6 - 82.6	115/60/3.3

† This is a freestanding model and requires 3" clearance from top, sides and back for proper condenser ventilation.

* Allow additional 2" for water line connection if connected directly behind the ice machine.

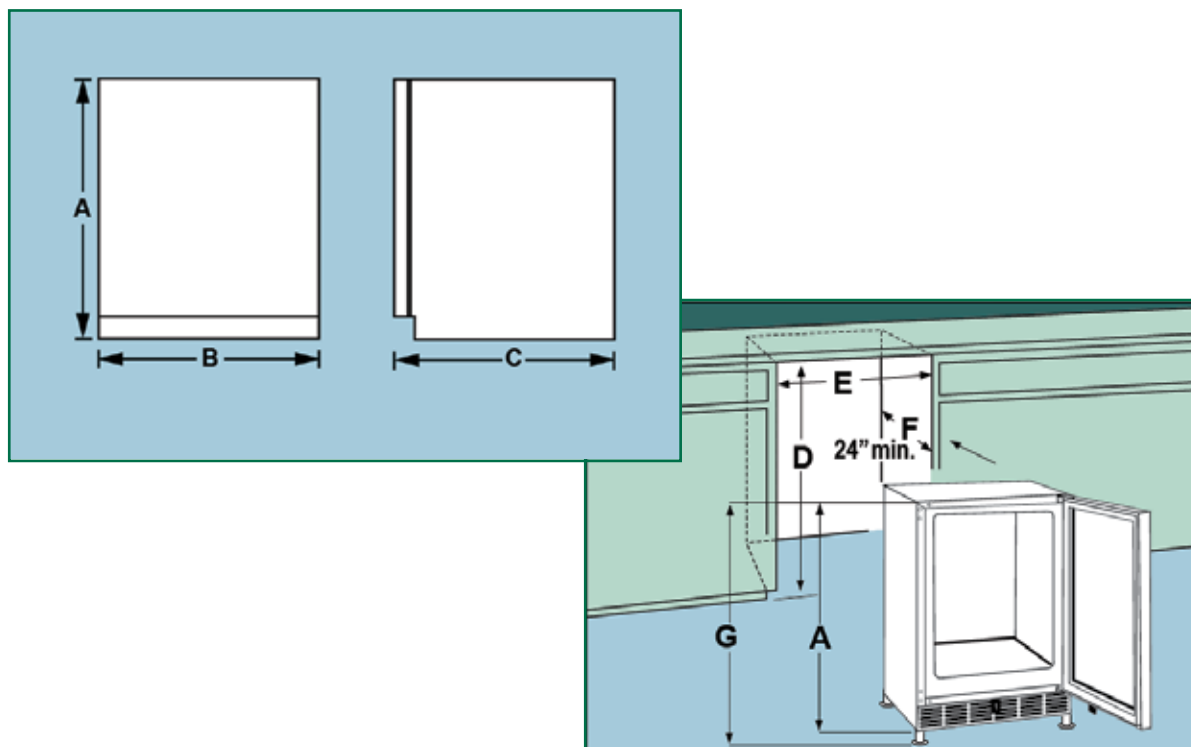
** Leveling legs cannot be used with this model.

Cut-Out Dimensions

		Exterior Cabinet Dimensions in/cm			Finished Rough Opening Dimensions in/cm			Height w/ Leveling Legs Installed in/cm	Electrical V/Hz/Amps
	Model	A Height	B Width	C Depth	D Height	E Width	F Min. Depth	G	
General Purpose Undercounter Freezers	15CAF	24 $\frac{1}{4}$ 62	14 $\frac{7}{8}$ 38	22 $\frac{1}{8}$ 56	24 $\frac{5}{8}$ 62.5	15 38.1	24 61	**	115/60/3.3
	4CAF	34 86	23 $\frac{7}{8}$ 61	24 61	34 $\frac{1}{2}$ 87.6	24 61	24 61	34 - 35 87 - 89	115/60/3.3
	6CAF	34 86	23 $\frac{7}{8}$ 61	24 61	34 $\frac{1}{2}$ 87.6	24 61	24 61	34 - 35 87 - 89	115/60/3.3
Flammable Material Storage Refrigerators & Freezers	6FAR	34 86	23 $\frac{7}{8}$ 61	26 66	†	†	†	34 - 35 87 - 89	115/60/3.3
	6FRF	34 86	23 $\frac{7}{8}$ 61	26 66	†	†	†	34 - 35 87 - 89	115/60/3.3
	4FAF	34 86	23 $\frac{7}{8}$ 61	26 66	†	†	†	34 - 35 87 - 89	115/60/3.3
Explosion Proof/ Hazardous Location Refrigerators & Freezers	6EAR	34 86	23 $\frac{7}{8}$ 61	26 66	†	†	†	34 - 35 87 - 89	115/60/3.3
	6ERF	34 86	23 $\frac{7}{8}$ 61	26 66	†	†	†	34 - 35 87 - 89	115/60/3.3
	4EAF	34 86	23 $\frac{7}{8}$ 61	26 66	†	†	†	34 - 35 87 - 89	115/60/3.3

† Explosion proof/hazardous location and flammable material storage models feature static condensers and need an additional 1 $\frac{1}{2}$ " clearance from back, top, and sides for proper condenser ventilation.

** Leveling legs cannot be used with this model.



Options

Model Chart

	Casters	Door Lock	Glass Door	Handle	Leveling Legs	Flat Door Liner	Probe Port	TMAR	Stacking Kit
3CARM		•		STD	STD	STD	•		
3CARM-GLD			STD	STD	STD		STD		
6CRDE				STD	STD				
6CADM	•	•		STD	STD	STD	•		•
6CARFM	•	•		STD	STD	STD	STD		•
6CARFM-GLD	•	STD	STD	STD	STD		STD		•
6EAR		•		STD	STD				
6FAR	•	•		STD	STD				
8CARM	•	•		STD	STD		•		
17CAR		•		STD	STD		•	•	
15CAF		•		STD		STD	•	•	
4CAF	•	•		STD	STD	STD	•	•	•
4EAF		•		STD	STD	STD			
4FAF	•	•		STD	STD	STD			
6CAF	•	•		STD	STD		•	•	•
17CAF		STD		STD	STD		•	•	
6CRF	•	•		STD	STD		•	•	•
6ERF		•		STD	STD				
6FRF	•	•		STD	STD				
6CRF-GLD	•		STD	STD	STD		•	•	•
8CRF	•	•		STD	STD		•	•	
6MOD		•		STD	STD		•	•	
15CM				STD		STD			
25CM				STD		STD			
30CM				STD	STD	STD			
6ADi				STD	STD	STD			

Note: GLD = Glass Door

• = Optional

Marvel Scientific

Features and Benefits



True Built-In Advantage

Marvel Scientific undercounter general purpose models have fan-cooled condensers so they can be built-in undercounter with your casework, saving valuable lab space elsewhere. Models are front-vented to install flush with surrounding walls and cabinets.

Flexibility in Design

Undercounter models have pre-drilled holes so the door swing is easily reversed from right to left on all models without locks. A door swing reversing kit available from the factory is required to accomplish in the field door swing reversing. Contact Customer Service for the appropriate kit for your model.

Positive Close Door Hinge System

Marvel Scientific undercounter general purpose models feature the positive close door hinge system to insure doors close fully every time and remain closed, even when slammed shut. No more bounce back creating door ajar events, the leading cause of refrigerator "Over Temperature"

The Right Options

Marvel Scientific offers an impressive array of options, from probe ports and locks to casters, temperature/monitor alarms and glass doors.

Fulfilling Demanding Roles

It's no accident that Marvel Scientific is the choice of many of the nation's leading hospitals and laboratories for situations where refrigerator failure is unacceptable and unthinkable.

The Department of Defense has deployed Marvel Scientific portable field ward hospital refrigerators to help military medical specialists attend the wounded during field military operations for more than 2 decades.

Fast cooling time and reliability in maintaining critical temperature levels make Marvel Scientific refrigerators and freezers ideal for storing reagents, serums, vaccines, medications and antibiotics, as well as body fluids and specimens.

Marvel Scientific is the leader in refrigeration for specialized applications. One of the first to manufacture refrigerators for hazardous locations, Marvel Scientific refrigerators regularly fulfill diverse and demanding roles throughout the world.



Marvel Scientific general purpose models are front vented so they may be built undercounter into casework.



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